

Amendments to the Claims

The following listing of claims replaces all prior versions, and listings, of claims in the application:

Claims 1-17 (Cancelled).

18. Method for the manufacture of an angular transducer unit for an angular switching device,
in which a transducer element is inserted and fixed in an angled bush,
wherein
the transducer element is brought into aligned engagement with a transducer receptacle formed in a tool,
for the precise positioning with respect to the transducer element, then the bush is brought into aligned, at least partial positive engagement with a bush receptacle appropriately constructed in the tool,
for completing the transducer unit the transducer element is fixed in the bush and the transducer receptacle is at least partly formed by a transducer centring device, which is inserted or engaged in a tool body of the tool.
19. Method according to claim 18,
wherein
the bush receptacle is at least partly formed by a bush centring device, which is inserted or engaged in the tool body.
20. Method according to claim 18,
wherein
the transducer element is fixed relative to the tool.

21. Method according to claim 20,
wherein
the transducer element is fixed by at least one of:
vacuum, adhesives, adhesive tapes, and magnets.

22. Method according to claim 18,
wherein
the transducer centring device is fixed relative to the tool body.

23. Method according to claim 19,
wherein
the bush centring device is fixed relative to the tool body.

24. Method according to claim 22,
wherein
the transducer centring device is fixed by at least one of: adhesives, adhesive tapes,
vacuum, and magnets.

25. Method according to claim 23,
wherein
the bush centring device is fixed by at least one of: adhesives, adhesive tapes,
vacuum, and magnets.

26. Method according to claim 21,
wherein
the transducer element is sucked onto the tool by means of at least one vacuum
duct in tool body.

27. Method according to claim 21,
wherein
a pressure compensation takes place on radially outer areas of a sucked on transducer element by means of compensating ducts in tool body.
28. Method according to claim 18,
wherein
the transducer centring device is removed prior to fixing transducer element in bush.
29. Method according to claim 18,
wherein
the transducer element is fixed in the bush by at least partly filling the gaps with at least one of: foam and moulding material.
30. Method according to claim 18,
wherein
use is made of a tool with steps, which as a stop engages with at least one of: a front end and a setback shoulder of the bush.
31. Method according to claim 18,
wherein
several transducer units are manufactured in parallel using one tool with a plurality of transducer receptacles and bush receptacles.
32. Method according to claim 18,
wherein
the bush is fixed relative to the tool.

33. Method according to claim 32,
wherein
the bush is fixed relative to the tool using a holder provided on the tool.
34. Method according to claim 18,
wherein
several transducer elements are inserted and fixed in an angled bush.
35. Method according to claim 18,
wherein
a shielding can is positively pressed into the bush.
36. Method according to claim 35,
wherein
the shielding can is fixed to a printed circuit board.
37. Method according to claim 36,
wherein
the shielding can is soldered to a printed circuit board.
38. Method according to claim 35,
wherein
the transducer unit is soldered to a shielding can.
39. Method according to claim 36,
wherein
the transducer unit is soldered to a shielding can.

40. Method according to claim 38,
wherein
the transducer unit is soldered to the shielding can by means of at least one clip provided thereon.

41. Method according to claim 18,
wherein
the bush is brought into at least one of: a positive, a non-positive engagement, and a locking engagement with a printed circuit board.

42. Method for the manufacture of an angular transducer unit for an angular switching device,
in which a transducer element is inserted and fixed in an angled bush,
wherein
the transducer element is brought into aligned engagement with a transducer receptacle formed in a tool,
for the precise positioning with respect to the transducer element, then the bush is brought into aligned, at least partial positive engagement with a bush receptacle appropriately constructed in the tool
for completing the transducer unit the transducer element is fixed in the bush and the bush receptacle is at least partly formed by a bush centring device, which is inserted or engaged in the tool body.